

Amendments to the Claims

Please cancel Claims 3 and 20 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claims 1, 17-19, 22 and 23 to read as follows.

1. (Currently amended) An image processing apparatus having read means for reading an original image as a color image, first output means for printing the image on a printing medium and outputting the image, second output means for transmitting the image to a communication partner terminal via a facsimile, and third output means for outputting the read image data to a connected information processing apparatus, comprising:

designation means for designating a read mode of said read means;

color transformation means for transforming a color space of the image data read by said read means into one of a plurality of color spaces;

compression means for compressing the image data in one of a plurality of compression formats; and

selection means for selecting a color space to be transformed by said color transformation means and a compression format of said compression means in accordance with the read mode designated by said designation means and one of said first to third output means which is to output the read image,

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wherein, if said designation means designates a color read mode as the read mode and said selection means selects either said first output means or said third output means, a color space to be transformed by said color transformation means is different from a color space for said second output means, and

wherein, if said designation means designates the color read mode as the read mode and said selection means selects said second output means, said selection means selects only Lab color space as a color space to be transformed by said color transformation means and selects JPEG as a compression format of said compression means.

2. (Previously presented) The apparatus according to claim 1, wherein the read mode designated by said designation means includes the color read mode, a gray scale read mode, and a monochrome read mode.

Claim 3 (cancelled)

4. (Previously presented) The apparatus according to claim 2, wherein when said designation means designates the gray scale read mode, and said second output means is to output the read image, said selection means selects a YCbCr space as the color space to be transformed by said color transformation means, and JPEG as the compression format of said compression means.

5. (Previously presented) The apparatus according to claim 2, wherein when said designation means designates the monochrome read mode, and said second output means is to output the read image, said selection means does not select a color space to be transformed by said color transformation means, and selects run length coding as the compression format of said compression means.

6. (Previously presented) The apparatus according to claim 2, further comprising output copy setting means for setting the number of output copies for one read page.

7. (Previously presented) The apparatus according to claim 6, wherein when the number of copies set by said output copy setting means is one, said designation means designates the color read mode, said first output means is to output the read image, and said selection means selects non-color transformation for said color transformation means, and non-compression for said compression means.

8. (Previously presented) The apparatus according to claim 6, wherein when the number of copies set by said output copy setting means is a plurality of copies, said designation means designates the color read mode, said first output means is to output the read image, and said selection means selects a YCbCr space for said color transformation means, and JPEG for said compression means.

9. (Previously presented) The apparatus according to claim 6, wherein when the number of copies set by said output copy setting means is one, said designation means designates the gray scale read mode, said first output means is to output the read image, and said selection means selects non-color transformation for said color transformation means, and non-compression for said compression means.

10. (Previously presented) The apparatus according to claim 6, wherein when the number of copies set by said output copy setting means is a plurality of copies, said designation means designates the gray scale read mode, said first output means is to output the read image, and said selection means selects a YCbCr space for said color transformation means, and JPEG for said compression means.

11. (Previously presented) The apparatus according to claim 6, wherein when the number of copies set by said output copy setting means is one, said designation means designates the monochrome mode, said first output means is to output the read image, and said selection means selects non-color transformation for said color transformation means, and non-compression for said compression means.

12. (Previously presented) The apparatus according to claim 6, wherein when the number of copies set by said output copy setting means is a plurality of copies, said designation means designates the monochrome mode, said first output means is to

output the read image, and said selection means selects non-color transformation for said color transformation means, and run length compression for said compression means.

13. (Previously presented) The apparatus according to claim 2, further comprising compression format designation means for designating the compression format of said compression means.

14. (Previously presented) The apparatus according to claim 13, wherein when said designation means designates either one of the color read mode and the gray scale read mode, said third output means is to output the read image, said compression format designation means designates JPEG, and said selection means selects a YCbCr space for the color space to be transformed by said color transformation means.

15. (Previously presented) The apparatus according to claim 13, wherein when said designation means designates either one of the color read mode and the gray scale read mode, said third output means is to output the read image, said compression format designation means designates run length compression, and said selection means selects non-transformation for said color transformation means.

16. (Previously presented) The apparatus according to claim 13, wherein when said designation means designates the monochrome mode, and said third output means is to output the read image, said selection means selects run length

compression as the compression format of said compression means, and does not select a color space to be transformed by said color transformation means.

17. (Currently amended) A control method for an image processing apparatus having read means for reading an original image as a color image, first output means for printing the image on a printing medium and outputting the image, second output means for transmitting the image to a communication partner terminal via a facsimile, and third output means for outputting the read image data to a connected information processing apparatus, comprising:

a designation step of designating a read mode of the read means;

a color transformation step of transforming a color space of the image data read by the read means into one of a plurality of color spaces;

a compression step of compressing the image data in one of a plurality of compression formats; and

a selection step of selecting a color space to be transformed in the color transformation step and a compression format in the compression step in accordance with the read mode designated in the designation step and one of the first to third output means which is to output the read image,

wherein, if the designation step designates a color read mode as the read mode and the selection step selects either the first output means or the third output means, a color space to be transformed by the color transformation step is different from a color space for the second output means, and

wherein, if the designation step designates the color read mode as the read mode and the selection step selects the second output means, the selection step selects only Lab color space as a color space to be transformed by the color transformation step and selects JPEG as a compression format of the compression step.

18. (Currently amended) A storage medium which stores program codes for causing a computer, having read means for reading an original image as a color image, first output means for printing the image on a printing medium and outputting the image, second output means for transmitting the image to a communication partner terminal via a facsimile, and third output means for outputting the read image data to a connected information processing apparatus, to function as an apparatus for executing reading and outputting image data read by said read means from any one of the first to third output means, wherein the program codes function as:

designation means for designating a read mode of said read means;

color transformation means for transforming a color space of the image data read by said read means into one of a plurality of color spaces;

compression means for compressing the image data in one of a plurality of compression formats; and

selection means for selecting a color space to be transformed by said color transformation means and a compression format of said compression means in accordance with the read mode designated by said designation means and one of said first to third output means which is to output the read image,

wherein, if said designation means designates a color read mode as the read mode and said selection means selects either said first output means or said third output means, a color space to be transformed by said color transformation means is different from a color space for said second output means, and

wherein, if said designation means designates the color read mode as the read mode and said selection means selects said second output means, said selection means selects only Lab color space as a color space to be transformed by said color transformation means and selects JPEG as a compression format of said compression means.

19. (Currently amended) An image processing apparatus comprising:  
input means for inputting color image data;  
transformation means for transforming a color space of the color image data input by said input means;  
compression means for compressing the color image data transformed by said transformation means by a predetermined algorithm; and  
output means for outputting the color image data compressed by said compression means,

wherein said transformation means transforms the color image data input by said input means into color image data of a color space corresponding to an output destination of said output means, and

wherein, if said output means outputs the color image data compressed by said compression means to a facsimile communication line, ~~a color space to be transformed~~



by said transformation means only transforms the color space of the color image data into Lab color space which is different from a color space to be transformed when said output means outputs the color image data to a destination other than the facsimile communication line.

Claim 20 (cancelled)

21. (Previously presented) The apparatus according to claim 19, wherein when the output destination of said output means is not a communication line, said transformation means transforms the color space into a color space which can be transformed more easily than an Lab space.

22. (Currently amended) An image processing method comprising:  
an input step of inputting color image data;  
a transformation step of transforming a color space of the color image data input in the input step;  
a compression step of compressing the color image data transformed in the transformation step by a predetermined algorithm; and  
an output step of outputting the color image data compressed in the compression step,

wherein the transformation step includes transforming the color image data input in the input step into color image data of a color space corresponding to an output destination in the output step, and

wherein, if the output step outputs the color image data compressed by the compression step to a facsimile communication line, ~~a color space to be transformed by the transformation step~~ only transforms the color space of the color image data into Lab color space which is different from a color space to be transformed when the output step outputs the color image data to a destination other than the facsimile communication line.

23. (Currently amended) A storage medium which stores program codes to be loaded and executed by a computer, said storage medium storing program codes of:

an input step of inputting color image data;

a transformation step of transforming a color space of the color image data input in the input step;

a compression step of compressing the color image data transformed in the transformation step by a predetermined algorithm; and

an output step of outputting the color image data compressed in the compression step,

wherein the program code of the transformation step is a program code of transforming the color image data input in the input step into color image data of a color space corresponding to an output destination in the output step, and

wherein, if the output step outputs the color image data compressed by the compression step to a facsimile communication line, ~~a color space to be transformed by the~~ transformation step only transforms the color space of the color image data into Lab color space which is different from a color space to be transformed when the output step outputs the color image data to a destination other than the facsimile communication line.